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Wolfgang Müller, Heidrun Schumann
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: 🗎 pdf(842.37 KB)   Additional Information: full citation, abstract, references

> Visualization has been successfully applied to analyse time-dependent data for a long time now. Lately, a number of new approaches have been introduced, promising more effective graphs especially for large datasets and multiparameter data. In this paper, we give an overview on the visualization of time-series data and the available techniques. We provide a taxonomy and discuss general aspects of time-dependent data. After an overview on conventional techniques we discuss techniques for analys ...

2 Data base directions: the next steps   ■
John L. Berg
November 1976 , Volume 8 , 8 Issue 4 , 2
Full text available: 🗎 pdf(9.95 MB)   Additional Information: full citation, abstract

> What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

> **Keywords**: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

3 Systems II: An analysis of a large scale habitat monitoring application   ▬
Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**
Full text available: 🗎 pdf(1.22 MB)   Additional Information: full citation, abstract, references, index terms

> Habitat and environmental monitoring is a driving application for wireless sensor networks.

We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these networks, consisting of 150 devices, produced unique datasets for both systems and biological analysis. This paper focuses on nodal and network performance, with an emphasis on lifetime, reliability, and the the static and dynamic aspects of single an ...

Keywords: application analysis, habitat monitoring, implementation, long-lived systems, microclimate monitoring, network architecture, sensor networks

4 SciCentr and BioLearn: two 3D implementations of CVE science museums
Margaret Corbit, Bonnie DeVarco
September 2000 **Proceedings of the third international conference on Collaborative virtual environments**

Full text available: pdf(454.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present and compare two examples of the use of the Active Worlds client/server technology for implementation of 3D multi-user virtual science museums: SciCentr, developed as a standalone environment at the Cornell Theory Center, Cornell University's high-performance computing center, and Biolearn, a virtual visitors center for the proposed LifeLearn Bioregional Learning Center on the Northern California Coast. SciCenter focuses on interactive exhibits analogous to those of ...

Keywords: 3D, CVE, MUVE, virtual science museum

5 Articles: The Ecobase project: database and web technologies for environmental information systems
Luc Bouganim, Maria Claudia Cavalcanti, Françoise Fabret, Maria Luiza Campos, François Llirbat, Marta Mattoso, Rubens Melo, Ana Maria Moura, Esther Pacitti, Fabio Porto, Margareth Simoes, Eric Simon, Asterio Tanaka, Patrick Valduriez
September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3

Full text available: pdf(691.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

A very large number of data sources on environment, energy, and natural resources are available worldwide. Unfortunately, users usually face several problems when they want to search and use relevant information. In the Ecobase project, we address these problems in the context of several environmental applications in Brazil and Europe. We propose a distributed architecture for environmental information systems (EIS) based on the Le Select middleware developed at INRIA. In this paper, we present ...

6 Virtual environments for geographic visualization: potential and challenges
Alan M. MacEachren, Robert Edsall, Daniel Haug, Ryan Baxter, George Otto, Raymon Masters, Sven Fuhrmann, Liujian Qian
November 1999 **Proceedings of the 1999 workshop on new paradigms in information visualization and manipulation in conjunction with the eighth ACM internation conference on Information and knowledge management**

Full text available: pdf(833.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

Virtual environment (VE) technologies have considerable potential to extend the power of information visualization methods, and those of scientific visualization more broadly. Our specific focus here is on VE technologies as a medium for geographic visualization and on some of the challenges that must be addressed if the potential of VE is to be realized in this context.

Keywords: collaboration, interactivity, maps, scientific visualization, virtual reality

7 The RasDaMan approach to multidimensional database management

Peter Baumann, Paula Furtado, Roland Ritsch, Norbert Widmann
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

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Steven R. Newcomb, Neill A. Kipp, Victoria T. Newcomb
November 1991 **Communications of the ACM**, Volume 34 Issue 11

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G. Mahinthakumar, Forrest M. Hoffman, William W. Hargrove, Nicholas T. Karonis
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: 📄 pdf(4.52 MB)   Additional Information: full citation, references, citings, index terms

10 ECSCW 2003 Computer Supported Scientific Collaboration (CSSC) workshop report

Helena Karasti, Karen S. Baker, Geoffrey C. Bowker
August 2003 **ACM SIGGROUP Bulletin**, Volume 24 Issue 2

Full text available: 📄 pdf(183.47 KB)   Additional Information: full citation, abstract, references

The Eighth European Computer Supported Cooperative Work conference (ECSCW 2003) provided a venue to gather researchers interested in the study of scientific collaborations and their technology support. The organizers, Karen S. Baker, Geoffrey C. Bowker and Helena Karasti, started to work together in 2002 on a National Science Foundation funded BioDiversity and EcoInformatics (BDEI) project 'Designing an Infrastructure for Heterogeneity in Ecosystem Data, Collaborators and Organizations' <u ...

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